

=> s us 20050222081/pn  
L4 1 US 20050222081/PN  
(US20050222081/PN)

=> d 14

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN  
AN 2003:855967 CAPLUS <<LOGINID::20080614>>  
DN 139:354437  
TI Crosslinked hyaluronate compounds for medical use  
IN Calias, Pericles; Gianolio, Diego A.; Miller, Robert J.  
PA Genzyme Corporation, USA  
SO PCT Int. Appl., 37 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	WO 2003089476	A1	20031030	WO 2003-US11830	20030417
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003230948	A1	20031103	AU 2003-230948	20030417
	US 20050222081	A1	20051006	US 2005-511373	20050504 <--
PRAI	US 2002-373279P	P	20020417		
	WO 2003-US11830	W	20030417		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> analyze 14  
ENTER ANSWER NUMBER OR RANGE (1-):1  
ENTER DISPLAY CODE (TI) OR ?:rn  
L5 ANALYZE L4 1 RN : 6 TERMS

=> b reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	20.18	20.39

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DICTIONARY FILE UPDATES: 12 JUN 2008 HIGHEST RN 1027805-40-8

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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s 15

L6 6 L5

=> d 16 scan

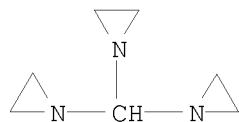
L6 6 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Hyaluronic acid  
MF Unspecified  
CI PMS, COM, MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 6 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Aziridine, 1,1',1''-methylidynetris-  
MF C7 H13 N3  
CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 6 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Aziridineethanol  
MF C4 H9 N O  
CI IDS, COM



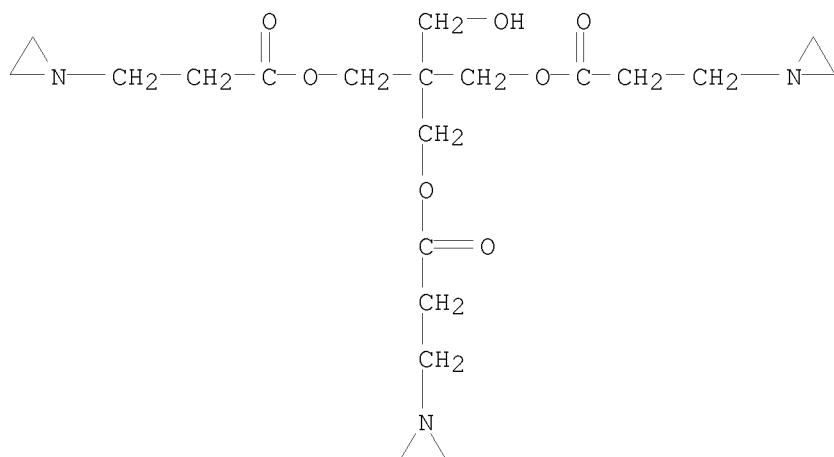
D1-CH<sub>2</sub>-CH<sub>2</sub>-OH

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 6 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN Hyaluronic acid, polymer with 2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate) (9CI)  
 MF (C20 H33 N3 O7 . Unspecified)x  
 CI PMS

CM 1

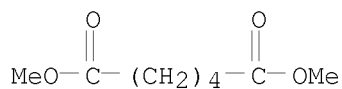


CM 2

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

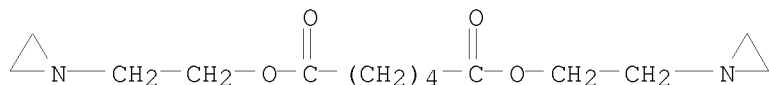
L6 6 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
 IN Hexanedioic acid, 1,6-dimethyl ester  
 MF C8 H14 O4  
 CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L6 6 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Hexanedioic acid, bis[2-(1-aziridinyl)ethyl] ester (9CI)  
MF C14 H24 N2 O4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> 1

1 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.  
For a list of commands available to you in the current file, enter  
"HELP COMMANDS" at an arrow prompt (=>).

=> s l6 and ?aziri?

LEFT TRUNCATION IGNORED FOR FILE 'REGISTRY'  
39897 AZIRI?

L7 4 L6 AND ?AZIRI?

Left truncation is not valid in the specified search field in the  
specified file. The term has been searched without left truncation.  
Examples: '?TERPEN?' would be searched as 'TERPEN?' and '?FLAVONOID'  
would be searched as 'FLAVONOID.'

If you are searching in a field that uses implied proximity, and you  
used a truncation symbol after a punctuation mark, the system may  
interpret the truncation symbol as being at the beginning of a term.  
Implied proximity is used in search fields indexed as single words,  
for example, the Basic Index.

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	5.61	26.00

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FILE COVERS 1907 - 14 Jun 2008 VOL 148 ISS 25  
FILE LAST UPDATED: 13 Jun 2008 (20080613/ED)

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=> s 17

L8 34 L7

=> s 18 and (hyalur? or ?sacchar?) and (?cross?)

29975 HYALUR?

407812 ?SACCHAR?

1188523 ?CROSS?

L9 1 L8 AND (HYALUR? OR ?SACCHAR?) AND (?CROSS?)

=> s 18 and (hyalur? or ?sacchar?)

29975 HYALUR?

407812 ?SACCHAR?

L10 3 L8 AND (HYALUR? OR ?SACCHAR?)

=> s 110 and py<=2002

22930220 PY<=2002

L11 1 L10 AND PY<=2002

=> d 111 scan

L11 1 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

CC 16-1 (Fermentation and Bioindustrial Chemistry)

TI Stabilization of  $\kappa$ -carrageenan gel with polymeric amines: use of immobilized cells as biocatalysts at elevated temperatures

ST microorganism immobilization carrageenan polyamine; polyethylene imine carrageenan gel

IT Bacillus stearothermophilus  
Flavobacterium

Saccharomyces cerevisiae

(immobilization of, in carrageenan gels)

IT Amines, uses and miscellaneous

RL: USES (Uses)

(poly-, aliphatic, carrageenan gels stabilization with, for immobilization of microorganisms)

IT Imines

RL: USES (Uses)

(polyethylenepoly-, carrageenan gels stabilization with, for immobilization of microorganisms)

IT 100-97-0, biological studies 112-24-3 124-09-4, biological studies

23974-29-0 64265-57-2

RL: BIOL (Biological study)

(carrageenan gel stabilization with, for immobilization of microorganisms)

IT 9002-98-6  
 RL: BIOL (Biological study)  
 (carrageenan gels stabilization with, for immobilization of microorganisms)

IT 9001-57-4 9031-11-2 9055-00-9  
 RL: BIOL (Biological study)  
 (immobilization of microorganisms containing, in carrageenan gels)

IT 11114-20-8  
 RL: BIOL (Biological study)  
 (stabilization of gels of, for immobilization of microorganisms)

ALL ANSWERS HAVE BEEN SCANNED

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	14.16	40.16

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=> S 23974-29-0/RN

L12 1 23974-29-0/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND  
 SET COMMAND COMPLETED

=> D L12 RN IN 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y  
THE ESTIMATED COST FOR THIS REQUEST IS 1.28 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:y

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 23974-29-0 REGISTRY  
IN Aziridine, 1,1',1''-methylidynetris-

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND  
SET COMMAND COMPLETED

=>

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.74	41.90

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 10:16:06 ON 14 JUN 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajsl1623

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'REGISTRY' AT 10:18:56 ON 14 JUN 2008  
FILE 'REGISTRY' ENTERED AT 10:18:56 ON 14 JUN 2008  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.74	41.90

=> b reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.74	41.90

FILE 'REGISTRY' ENTERED AT 10:19:09 ON 14 JUN 2008  
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DICTIONARY FILE UPDATES: 12 JUN 2008 HIGHEST RN 1027805-40-8

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Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> d his

(FILE 'HOME' ENTERED AT 10:11:36 ON 14 JUN 2008)

FILE 'CAPLUS' ENTERED AT 10:11:57 ON 14 JUN 2008

L1 0 S US 2005/0222081.PN  
L2 1 S US 2005/0222081/PN  
L3 1 S US2005 0222081/PN  
L4 1 S US 20050222081/PN  
L5 ANALYZE L4 1 RN : 6 TERMS

FILE 'REGISTRY' ENTERED AT 10:13:16 ON 14 JUN 2008

L6 6 S L5  
L7 4 S L6 AND ?AZIRI?

FILE 'CAPLUS' ENTERED AT 10:13:52 ON 14 JUN 2008

L8 34 S L7  
L9 1 S L8 AND (HYALUR? OR ?SACCHAR?) AND (?CROSS?)  
L10 3 S L8 AND (HYALUR? OR ?SACCHAR?)  
L11 1 S L10 AND PY<=2002

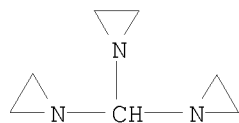
FILE 'REGISTRY' ENTERED AT 10:15:45 ON 14 JUN 2008

L12 1 S 23974-29-0/RN  
SET NOTICE 1 DISPLAY  
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 10:19:09 ON 14 JUN 2008

=> d 17 scan

L7 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Aziridine, 1,1',1''-methyldynetriss-  
MF C7 H13 N3  
CI COM





\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Aziridineethanol  
MF C4 H9 N O  
CI IDS, COM

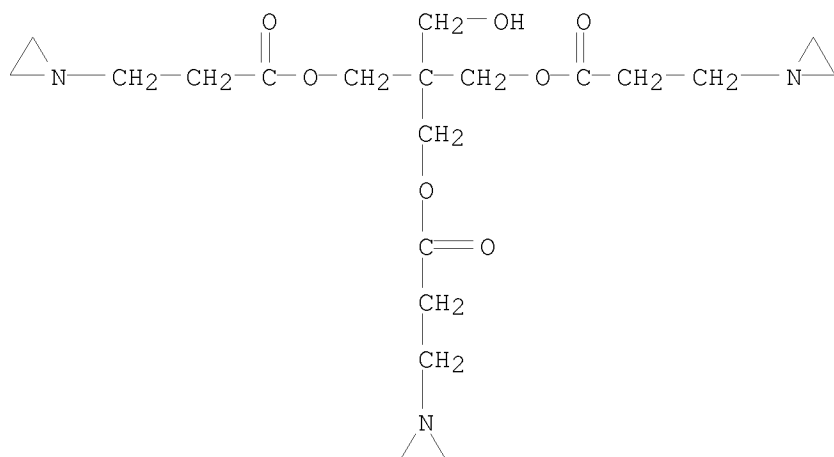


D1-CH<sub>2</sub>-CH<sub>2</sub>-OH

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Hyaluronic acid, polymer with 2-[[3-(1-aziridiny1)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl bis(1-aziridinepropanoate) (9CI)  
MF (C20 H33 N3 O7 . Unspecified)x  
CI PMS  
CM 1

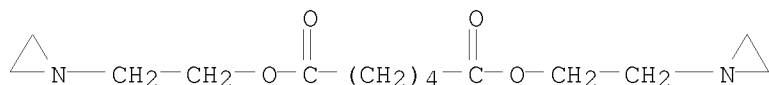


CM 2

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L7 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN  
IN Hexanedioic acid, bis[2-(1-aziridiny)ethyl] ester (9CI)  
MF C14 H24 N2 O4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> b caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.46

42.36

FILE 'CAPLUS' ENTERED AT 10:19:46 ON 14 JUN 2008

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=> d his

(FILE 'HOME' ENTERED AT 10:11:36 ON 14 JUN 2008)

FILE 'CAPLUS' ENTERED AT 10:11:57 ON 14 JUN 2008

L1 0 S US 2005/0222081.PN

L2 1 S US 2005/0222081/PN

L3 1 S US2005 0222081/PN  
L4 1 S US 20050222081/PN  
L5 ANALYZE L4 1 RN : 6 TERMS

FILE 'REGISTRY' ENTERED AT 10:13:16 ON 14 JUN 2008

L6 6 S L5  
L7 4 S L6 AND ?AZIRI?

FILE 'CAPLUS' ENTERED AT 10:13:52 ON 14 JUN 2008

L8 34 S L7  
L9 1 S L8 AND (HYALUR? OR ?SACCHAR?) AND (?CROSS?)  
L10 3 S L8 AND (HYALUR? OR ?SACCHAR?)  
L11 1 S L10 AND PY<=2002

FILE 'REGISTRY' ENTERED AT 10:15:45 ON 14 JUN 2008

L12 1 S 23974-29-0/RN  
SET NOTICE 1 DISPLAY  
SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 10:19:09 ON 14 JUN 2008

FILE 'CAPLUS' ENTERED AT 10:19:46 ON 14 JUN 2008

=> s l8 and py<=2002  
22930220 PY<=2002  
L13 30 L8 AND PY<=2002

=> s l13 and hyaluron?  
29944 HYALURON?  
L14 0 L13 AND HYALURON?

=> s hyaluron? and ?aziri?  
29944 HYALURON?  
22140 ?AZIRI?  
L15 37 HYALURON? AND ?AZIRI?

=> s l15 and py<=2002  
22930220 PY<=2002  
L16 25 L15 AND PY<=2002

=> d l16 ti 1-25

L16 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Crosslinkable polymers for immobilizing objects in the body

L16 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Crosslinking of amine-containing polymers with activated dicarboxylic acids

L16 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Modular targeted liposomal delivery system

L16 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Polymeric encapsulation system promoting angiogenesis

L16 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Determination of amino acids in diverse polymeric matrices using HPLC, with emphasis on agars and agaroses

L16 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Hydrophilic coating for an intracorporeal medical device

L16 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Lubricious hydrophilic coating for an intracorporeal medical device

L16 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI A new free-radical inhibitor

L16 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Acoustically active drug delivery systems comprising a gas or gaseous precursor filled microsphere

L16 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Preparation of solid porous matrixes for pharmaceutical uses

L16 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Simple model for the XPS analysis of polysaccharide-coated surfaces

L16 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Gas and gaseous precursor filled microspheres as topical and subcutaneous delivery vehicles

L16 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Polysaccharide gel composition

L16 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Process for producing commingled polyurethane-urea and poly(N-vinylpyrrolidone) polymer hydrogel coatings

L16 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Hydrogel coatings containing a polyurethane-urea hydrogel commingled with at least one other dissimilar polymer hydrogel

L16 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Process for hydrophilization of hydrophobic polymers

L16 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Functionalization of surfaces by coating and products therefrom

L16 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Therapeutic delivery systems comprising gas precursor-filled microspheres

L16 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Sulfonyl derivatives

L16 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Water-insoluble hyaluronic acid

L16 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Water-insoluble hyaluronic acid preparation

L16 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Effect of some drugs on hexosamine synthesis in Ehrlich ascites carcinoma cells and on hyaluronic acid content in the ascitic fluid

L16 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

TI The growth-stimulating effect of triethylenethiophosphoramidate and 5-fluorouracil on ceils of sarcoma 180

L16 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

TI Preparation and pharmacological significance of some components of the poison of Clostridium welchii (perfringens) type A

L16 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2008 ACS on STN

TI Action of hyaluronidase and 2,4,6-triethylenimino-1,3,5-triazine (TEM) on the growth of the Jensen sarcoma in the rat

=> s l16 and (visco? or ?arthr? or joint)

512828 VISCO?

83415 ?ARTHR?

100540 JOINT

58406 JOINTS

132315 JOINT

(JOINT OR JOINTS)

L17 2 L16 AND (VISCO? OR ?ARTHR? OR JOINT)

=> d l17 scan

L17 2 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

TI A new free-radical inhibitor

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L17 2 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

IC ICM C08B037-08

ICS C08L005-08; A61K031-725

CC 63-6 (Pharmaceuticals)

TI Polysaccharide gel composition

ST pharmaceutical polysaccharide gel

IT Drug delivery systems

(gels; polysaccharide gel composition)

IT Crosslinking agents

(polysaccharide gel composition)

IT Aldehydes, biological studies

Epoxides

RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(polysaccharide gel composition)

IT Glycosaminoglycans, biological studies

Polysaccharides, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(polysaccharide gel composition)

IT 2425-79-8D, 1,4-Butanediol diglycidyl ether, derivs.

RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(crosslinking agent; polysaccharide gel composition)

IT 77-77-0D, Divinyl sulfone, derivs. 151-56-4D, Aziridine,

polymers, biological studies 556-52-5D, Glycidol, ethers

RL: MOA (Modifier or additive use); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(crosslinking agents; polysaccharide gel composition)

IT 9004-61-9, Hyaluronic acid

RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)  
(polysaccharide gel composition)

ALL ANSWERS HAVE BEEN SCANNED

=> d 117 1-2 ibib

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1999:145721 CAPLUS <<LOGINID::20080614>>  
TITLE: A new free-radical inhibitor  
AUTHOR(S): Dietrich, Michelle R.  
CORPORATE SOURCE: Beaver College, Glenside, PA, 19038, USA  
SOURCE: Book of Abstracts, 217th ACS National Meeting,  
Anaheim, Calif., March 21-25 (1999),  
ORGN-288. American Chemical Society: Washington, D.  
C.  
CODEN: 67GHA6  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1997:220637 CAPLUS <<LOGINID::20080614>>  
DOCUMENT NUMBER: 126:216663  
ORIGINAL REFERENCE NO.: 126:41815a,41818a  
TITLE: Polysaccharide gel composition  
INVENTOR(S): Aagerup, Bengt  
PATENT ASSIGNEE(S): Aagerup, Bengt, Swed.  
SOURCE: PCT Int. Appl., 26 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 9704012	A1	19970206	WO 1996-SE684	19960528 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF				
US 5827937	A	19981027	US 1995-503323	19950717 <--
CA 2226488	A1	19970206	CA 1996-2226488	19960528 <--
CA 2226488	C	20051206		
AU 9663718	A	19970218	AU 1996-63718	19960528 <--
AU 700215	B2	19981224		
EP 839159	A1	19980506	EP 1996-923119	19960528 <--
EP 839159	B1	20010808		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI				
CN 1190974	A	19980819	CN 1996-195523	19960528 <--
CN 1083849	B	20020501		
BR 9609534	A	19990223	BR 1996-9534	19960528 <--
JP 11509256	T	19990817	JP 1997-506592	19960528 <--
JP 3094074	B2	20001003		
HU 9901714	A2	19990928	HU 1999-1714	19960528 <--

HU 9901714	A3	20000628		
HU 220257	B	20011128		
AT 204000	T	20010815	AT 1996-923119	19960528 <--
PT 839159	T	20011130	PT 1996-923119	19960528 <--
ES 2161368	T3	20011201	ES 1996-923119	19960528 <--
SK 282431	B6	20020205	SK 1998-61	19960528 <--
CZ 290755	B6	20021016	CZ 1998-129	19960528 <--
PL 188071	B1	20041231	PL 1996-324608	19960528
NO 9800213	A	19980316	NO 1998-213	19980116 <--
NO 315274	B1	20030811		
GR 3037065	T3	20020131	GR 2001-401937	20011030 <--
PRIORITY APPLN. INFO.:			US 1995-503323	A 19950717
			WO 1996-SE684	W 19960528

=> d his

(FILE 'HOME' ENTERED AT 10:11:36 ON 14 JUN 2008)

FILE 'CAPLUS' ENTERED AT 10:11:57 ON 14 JUN 2008

L1 0 S US 2005/0222081.PN  
 L2 1 S US 2005/0222081/PN  
 L3 1 S US2005 0222081/PN  
 L4 1 S US 20050222081/PN  
 L5 ANALYZE L4 1 RN : 6 TERMS

FILE 'REGISTRY' ENTERED AT 10:13:16 ON 14 JUN 2008

L6 6 S L5  
 L7 4 S L6 AND ?AZIRI?

FILE 'CAPLUS' ENTERED AT 10:13:52 ON 14 JUN 2008

L8 34 S L7  
 L9 1 S L8 AND (HYALUR? OR ?SACCHAR?) AND (?CROSS?)  
 L10 3 S L8 AND (HYALUR? OR ?SACCHAR?)  
 L11 1 S L10 AND PY<=2002

FILE 'REGISTRY' ENTERED AT 10:15:45 ON 14 JUN 2008

L12 1 S 23974-29-0/RN  
 SET NOTICE 1 DISPLAY  
 SET NOTICE LOGIN DISPLAY

FILE 'REGISTRY' ENTERED AT 10:19:09 ON 14 JUN 2008

FILE 'CAPLUS' ENTERED AT 10:19:46 ON 14 JUN 2008

L13 30 S L8 AND PY<=2002  
 L14 0 S L13 AND HYALURON?  
 L15 37 S HYALURON? AND ?AZIRI?  
 L16 25 S L15 AND PY<=2002  
 L17 2 S L16 AND (VISCO? OR ?ARTHR? OR JOINT)

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.26	73.62

SESSION WILL BE HELD FOR 120 MINUTES  
 STN INTERNATIONAL SESSION SUSPENDED AT 10:23:18 ON 14 JUN 2008

Connecting via Winsock to STN

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LOGINID:ssptajsl1623

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 11:05:43 ON 14 JUN 2008  
FILE 'CAPLUS' ENTERED AT 11:05:43 ON 14 JUN 2008  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.26	73.62

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.26	73.62

FILE 'CAPLUS' ENTERED AT 11:05:58 ON 14 JUN 2008  
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FILE COVERS 1907 - 14 Jun 2008 VOL 148 ISS 25  
FILE LAST UPDATED: 13 Jun 2008 (20080613/ED)

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<http://www.cas.org/legal/infopolicy.html>

=> b reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.48	74.10

FILE 'REGISTRY' ENTERED AT 11:06:02 ON 14 JUN 2008  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 JUN 2008 HIGHEST RN 1027805-40-8  
DICTIONARY FILE UPDATES: 12 JUN 2008 HIGHEST RN 1027805-40-8

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> s 57116-45-7/rn

L18 1 57116-45-7/RN

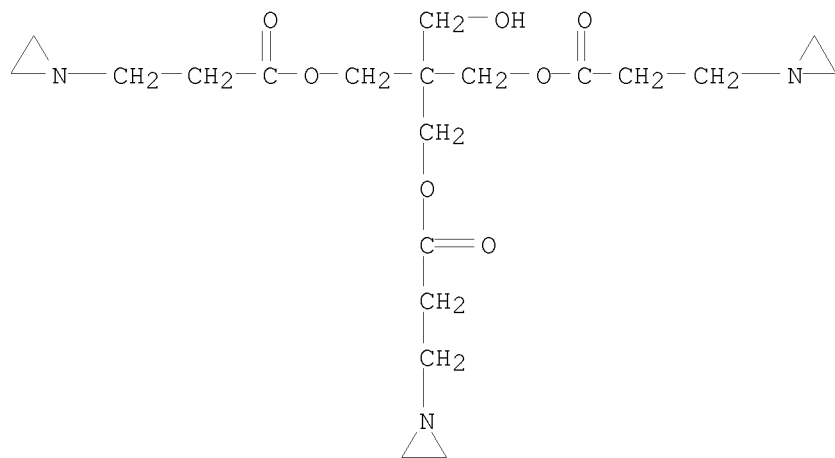
=> d l18 scan

L18 1 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 1-Aziridinepropanoic acid, 1,1'-[2-[[3-(1-aziridinyl)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl] ester

MF C20 H33 N3 O7

CI COM

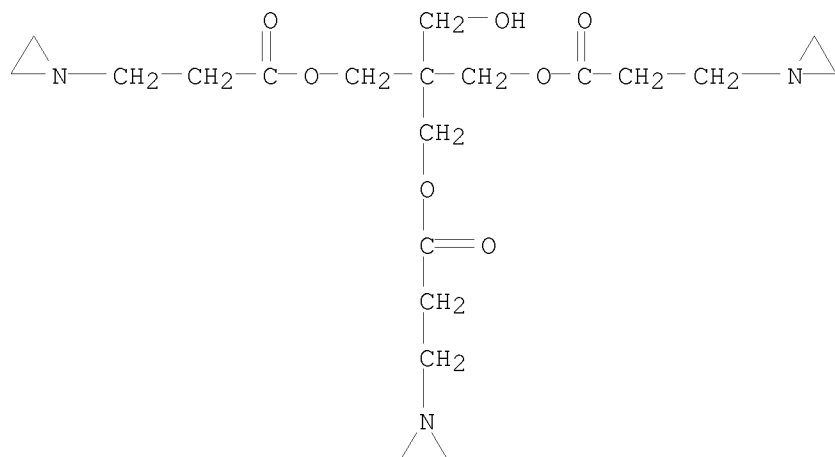


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> d l18

L18 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
 RN 57116-45-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1-Aziridinepropanoic acid, 1,1'-[2-[[3-(1-aziridiny1)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl] ester (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN 1-Aziridinepropanoic acid, 2-[[3-(1-aziridiny1)-1-oxopropoxy]methyl]-2-(hydroxymethyl)-1,3-propanediyl ester (9CI)  
 OTHER NAMES:  
 CN Pentaerythritol tris(3-aziridinopropionate)  
 CN Pentaerythritol tris[3-(1-aziridiny1)propionate]  
 CN TAZO  
 CN Xama 7  
 DR 215302-44-6  
 MF C20 H33 N3 O7  
 CI COM  
 LC STN Files: BIOSIS, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, MEDLINE, PROMT, RTECS\*, SCISEARCH, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

104 REFERENCES IN FILE CA (1907 TO DATE)  
 12 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 104 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2.46

76.56

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FILE COVERS 1907 - 14 Jun 2008 VOL 148 ISS 25  
FILE LAST UPDATED: 13 Jun 2008 (20080613/ED)

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=> s l18 and ?hyaluron?

104 L18

29995 ?HYALURON?

L19 2 L18 AND ?HYALURON?

=> s l19 and py<=2002

22930220 PY<=2002

L20 2 L19 AND PY<=2002

=> d l20 scan

L20 2 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

IC ICM C08J003-26

ICS A61L031-00; A61L027-00

CC 44-5 (Industrial Carbohydrates)

Section cross-reference(s): 63

TI Preparation of aqueous dispersions of particles of crosslinked water-soluble polymers, the particles obtained, and their pharmaceutical use

ST water soluble polymer microsphere dispersion; alginate crosslinking microsphere dispersion

IT Wound healing promoters

(aqueous dispersions of particles of crosslinked water-soluble polymers as)

IT Microspheres

(aqueous dispersions of particles of crosslinked water-soluble polymers in

the

form of)

IT Carbodiimides

RL: CAT (Catalyst use); USES (Uses)

(crosslinking catalysts; preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT Epoxides

RL: RCT (Reactant); RACT (Reactant or reagent)

(diepoxides, crosslinking agents; preparation of aqueous dispersions of

particles of crosslinked water-soluble polymers)

IT Glycoproteins, specific or class  
 RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 (emulsans; preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT Soaps  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (emulsifiers; in preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT Prosthetic materials and Prosthetics  
 (implants; aqueous dispersions of particles of crosslinked water-soluble polymers for)

IT Emulsifying agents  
 (in preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT Bladder  
 (incontinence; aqueous dispersions of particles of crosslinked water-soluble polymers in treatment of)

IT Crosslinking  
 (of water-soluble polymers in preparation of microparticle dispersions)

IT Polysaccharides, processes  
 RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 (preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT Albumins, processes  
 RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 (serum, bovine; preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT Animal tissue  
 (soft; aqueous dispersions of particles of crosslinked water-soluble polymers in augmentation of)

IT Polymers, processes  
 RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 (water-soluble; preparation of crosslinked microparticles of)

IT Globulins, processes  
 RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 ( $\gamma$ -, human; preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT 77-77-0, Divinyl sulfone 111-30-8, Glutaraldehyde 1892-57-5, 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide 57116-45-7, XAMA 7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (crosslinking agent; preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT 104-15-4, p-Toluenesulfonic acid, uses 7727-54-0, Ammonium persulfate  
 RL: CAT (Catalyst use); USES (Uses)  
 (crosslinking catalyst; preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT 1338-41-6, Sorbitan monostearate 51834-17-4, Hexadecyl sodium phthalate  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (emulsifier; in preparation of aqueous dispersions of particles of crosslinked water-soluble polymers)

IT 9004-53-9, Dextrins

RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 (limit; preparation of aqueous dispersions of particles of crosslinked  
 water-soluble polymers)

IT 95-47-6, o-Xylene, uses 108-88-3, Toluene, uses 540-84-1, Isooctane  
 RL: NUU (Other use, unclassified); USES (Uses)  
 (preparation of aqueous dispersions of particles of crosslinked  
 water-soluble  
 polymers)

IT 1398-61-4, Chitin 9000-07-1, Carrageenan 9002-89-5, Poly(vinyl  
 alcohol) 9003-39-8, Poly(N-vinylpyrrolidone) 9004-54-0, Dextran,  
 processes 9004-61-9, Hyaluronic acid 9004-62-0, Hydroxyethyl  
 cellulose 9004-65-3, Methocel K 4M 9004-67-5, Methyl cellulose  
 9005-25-8, Starch, processes 9005-38-3, Sodium alginate 9005-49-6,  
 Heparin sulfate, processes 9005-79-2, Glycogen, processes 9005-82-7,  
 Amylose 9007-28-7, Chondroitin sulfate 9012-36-6, Agarose 9012-76-4,  
 Chitosan 9037-22-3, Amylopectin 11138-66-2, Xanthan 24967-94-0,  
 Dermatan sulfate 54724-00-4, Curdlan 142804-65-7, Gellan  
 169799-44-4, Keratin sulfate  
 RL: PEP (Physical, engineering or chemical process); PROC (Process)  
 (preparation of aqueous dispersions of particles of crosslinked  
 water-soluble  
 polymers)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 2 ANSWERS CAPLUS COPYRIGHT 2008 ACS on STN

IC ICM C08J003-26  
 ICS A61L027-00; A61L031-00

CC 63-6 (Pharmaceuticals)

TI Process for the preparation of aqueous dispersions of particles of  
 water-soluble polymers for drug delivery

ST polymer crosslinking pharmaceutical particle

IT Drug delivery systems  
 (beads; preparation of aqueous dispersions of particles of water-soluble  
 crosslinked polymers for therapeutic uses)

IT Fibers  
 RL: ADV (Adverse effect, including toxicity); PEP (Physical, engineering  
 or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC  
 (Process); USES (Uses)  
 (cellulosic, hydroxypropyl Me cellulose; preparation of aqueous dispersions  
 of  
 particles of water-soluble crosslinked polymers for therapeutic uses)

IT Carbodiimides  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (crosslinking agents; preparation of aqueous dispersions of particles of  
 water-soluble crosslinked polymers for therapeutic uses)

IT Epoxides  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (diepoxides, crosslinking agents; preparation of aqueous dispersions of  
 particles of water-soluble crosslinked polymers for therapeutic uses)

IT Glycoproteins, specific or class  
 RL: ADV (Adverse effect, including toxicity); PEP (Physical, engineering  
 or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC  
 (Process); USES (Uses)  
 (emulsans; preparation of aqueous dispersions of particles of water-soluble  
 crosslinked polymers for therapeutic uses)

IT Soaps  
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)  
 (emulsifying agents; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Digestive tract  
 (gastroesophageal reflux; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Drug delivery systems  
 (implants; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Bladder  
 (incontinence; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Larynx  
 (insufficiency; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Drug delivery systems  
 (liqs., dispersions, aqueous; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Drug delivery systems  
 (microspheres; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Hydrophile-lipophile balance value  
 (of emulsifiers; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Drug delivery systems  
 (particles; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Epoxides  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (polyepoxides, crosslinking agents; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Crosslinking agents  
 Emulsifying agents  
 Particle size  
 Skin, disease  
 Wound healing promoters  
 (preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Biopolymers  
 Collagens, biological studies  
 Glycoproteins, general, biological studies  
 Lipopolysaccharides  
 Peptidoglycans  
 Polymers, biological studies  
 Polyoxyalkylenes, biological studies  
 Polysaccharides, biological studies  
 Proteins, general, biological studies  
 Proteoglycans, biological studies  
 RL: ADV (Adverse effect, including toxicity); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
 (preparation of aqueous dispersions of particles of water-soluble crosslinked

polymers for therapeutic uses)

IT Hydrocarbons, biological studies  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Cell proliferation  
 (promoters of; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Bone  
 Cartilage  
 Lip  
 Mammary gland  
 Penis  
 Tendon  
 (promotion of cell growth of tissue in; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Albumins, biological studies  
 RL: ADV (Adverse effect, including toxicity); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
 (serum; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Animal tissue  
 (soft, augmentation of; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Kidney, disease  
 (vesicourethral reflex; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT Globulins, biological studies  
 RL: ADV (Adverse effect, including toxicity); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
 ( $\gamma$ -, human; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT 1338-41-6, Span 60 9002-93-1, Triton X-102 9005-70-3, Tween 85  
 51834-17-4, Hexadecyl sodium phthalate 106392-12-5, Pluronic F  
 110617-70-4, Tetronic 1102  
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (emulsifying agent; preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT 1398-61-4, Chitin 9000-07-1, Carrageenan 9002-89-5, Polyvinyl alcohol  
 9003-39-8, Polyvinylpyrrolidone 9004-34-6, Cellulose, biological studies  
 9004-54-0, Dextran, biological studies 9004-61-9, Hyaluronic acid  
 9004-62-0, Hydroxyethyl cellulose 9004-65-3, Hydroxypropyl methyl cellulose  
 9004-67-5, Methyl cellulose 9005-25-8, Starch, biological studies  
 9005-38-3, Sodium alginate 9005-49-6, Heparin sulfate, biological studies  
 9005-79-2, Glycogen, biological studies 9005-80-5, Inulin 9005-82-7, Amylose  
 9007-28-7, Chondroitin sulfate 9012-36-6, Agarose 9012-76-4, Chitosan  
 9037-22-3, Amylopectin 9041-35-4, Sephadex G 25 9041-36-5, Sephadex G 200  
 9041-38-7, Teichoic acid 9048-71-9, Sephadex G 50 9067-32-7, Sodium hyaluronate  
 11138-66-2, Xanthan 24967-94-0, Dermatan sulfate 25322-68-3  
 37224-29-6, Sephadex G 75 54724-00-4, Curdlan 142804-65-7, Gellan

169799-44-4, Keratin sulfate  
 RL: ADV (Adverse effect, including toxicity); PEP (Physical, engineering or chemical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)  
 (preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT 577-11-7  
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT 77-77-0, Divinyl sulfone 104-15-4, reactions 106-89-8, reactions 111-30-8, Glutaraldehyde 1464-53-5, 1,3-Butadiene diepoxide 1892-57-5, 1-(3-Dimethylaminopropyl)-3-ethylcarbodiimide 2224-15-9, Ethylene glycol diglycidyl ether 7727-54-0, Ammonium persulfate 10043-52-4, Calcium chloride, reactions 15580-20-8, 1-Cyclohexyl-3-(2-morpholinoethyl)carbodiimide 57116-45-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

IT 95-47-6, o-Xylene, biological studies 108-88-3, Toluene, biological studies 540-84-1, Isooctane  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (preparation of aqueous dispersions of particles of water-soluble crosslinked polymers for therapeutic uses)

ALL ANSWERS HAVE BEEN SCANNED

=> d his

(FILE 'HOME' ENTERED AT 10:11:36 ON 14 JUN 2008)

FILE 'CAPLUS' ENTERED AT 10:11:57 ON 14 JUN 2008

L1 0 S US 2005/0222081.PN  
 L2 1 S US 2005/0222081/PN  
 L3 1 S US2005 0222081/PN  
 L4 1 S US 20050222081/PN  
 L5 ANALYZE L4 1 RN : 6 TERMS

FILE 'REGISTRY' ENTERED AT 10:13:16 ON 14 JUN 2008

L6 6 S L5  
 L7 4 S L6 AND ?AZIRI?

FILE 'CAPLUS' ENTERED AT 10:13:52 ON 14 JUN 2008

L8 34 S L7  
 L9 1 S L8 AND (HYALUR? OR ?SACCHAR?) AND (?CROSS?)  
 L10 3 S L8 AND (HYALUR? OR ?SACCHAR?)  
 L11 1 S L10 AND PY<=2002

FILE 'REGISTRY' ENTERED AT 10:15:45 ON 14 JUN 2008

L12 1 S 23974-29-0/RN  
 SET NOTICE 1 DISPLAY  
 SET NOTICE LOGIN DISPLAY



FILE 'REGISTRY' ENTERED AT 10:19:09 ON 14 JUN 2008

FILE 'CAPLUS' ENTERED AT 10:19:46 ON 14 JUN 2008

L13 30 S L8 AND PY<=2002  
L14 0 S L13 AND HYALURON?  
L15 37 S HYALURON? AND ?AZIRI?  
L16 25 S L15 AND PY<=2002  
L17 2 S L16 AND (VISCO? OR ?ARTHR? OR JOINT)

FILE 'CAPLUS' ENTERED AT 11:05:58 ON 14 JUN 2008

FILE 'REGISTRY' ENTERED AT 11:06:02 ON 14 JUN 2008

L18 1 S 57116-45-7/RN

FILE 'CAPLUS' ENTERED AT 11:06:55 ON 14 JUN 2008

L19 2 S L18 AND ?HYALURON?  
L20 2 S L19 AND PY<=2002

=> d l20 ibib ab 1-2

L20 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1999:405022 CAPLUS <<LOGINID::20080614>>

DOCUMENT NUMBER: 131:63475

TITLE: Process for the preparation of aqueous dispersions of particles of water-soluble polymers for drug delivery  
INVENTOR(S): Vanderhoff, John W.; Lu, Cheng Xun; Lee, Clarence C.; Tsai, Chi-Chun

PATENT ASSIGNEE(S): C.R. Bard, Inc., USA; Lehigh University

SOURCE: PCT Int. Appl., 114 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 9931167	A1	19990624	WO 1998-US26094	19981209 <--
W: IN, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 6214331	B1	20010410	US 1997-989888	19971212 <--
PRIORITY APPLN. INFO.:			US 1997-989888	A 19971212
			US 1995-466676	B2 19950606
			US 1996-659770	B2 19960606

AB The invention is a process for the preparation of crosslinked water-swella-  
ble polymer particles. First, an aqueous polymer solution containing a  
water-soluble

polymer having at least one functional group or charge, is combined with  
aqueous medium. The aqueous polymer solution is then mixed under moderate  
agitation

with an oil medium and an emulsifier to form an emulsion of droplets of  
the water-soluble polymer. A crosslinking agent capable of crosslinking the  
functional groups and/or charges in the water-soluble polymer is then added  
to the emulsion to form crosslinked water-swella-ble polymer particles.  
The invention also includes the particles formed by the process and aqueous  
dispersions containing the particles which are useful for administering to an

individual. The particles of the invention are useful for implantation, soft tissue augmentation, and scaffolding to promote cell growth. Microspheres were obtained from crosslinked droplets of Na alginate/Me cellulose by dispersing 50.0 g water containing 2.25 g Na alginate and 0.25 g Methocel K4M in 75.0 g isoocatane containing 1.5 g Span 85; then 5.0 g water containing 1.0 g Tween 85 was added, and the dispersion was stirred. The droplets formed by the dispersion were crosslinked with an equivalent amount of the XAMA-7 crosslinking agent and then isopropanol was added to dehydrate and harden the crosslinked microspheres.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:97244 CAPLUS <<LOGINID::20080614>>

DOCUMENT NUMBER: 126:105683

ORIGINAL REFERENCE NO.: 126:20385a,20388a

TITLE: Preparation of aqueous dispersions of particles of crosslinked water-soluble polymers, the particles obtained, and their pharmaceutical use

INVENTOR(S): Vanderhoff, John W.; Lu, Cheng Xun; Lee, Clarence C.; Tsai, Chi-Chun

PATENT ASSIGNEE(S): C.R. Bard, Inc., USA; Lehigh University

SOURCE: PCT Int. Appl., 137 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9639464	A1	19961212	WO 1996-US10249	19960606 <--
W: JP				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 830416	A1	19980325	EP 1996-922457	19960606 <--
EP 830416	B1	20050831		
R: BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE, IE				
JP 11507679	T	19990706	JP 1996-502262	19960606 <--
EP 1607429	A2	20051221	EP 2005-18853	19960606
EP 1607429	A3	20060104		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, AL				
ES 2248817	T3	20060316	ES 1996-922457	19960606
PRIORITY APPLN. INFO.:			US 1995-466676	A 19950606
			EP 1996-922457	A3 19960606
			WO 1996-US10249	W 19960606

AB Crosslinked water-soluble polymer particles are prepared by combining an aqueous

solution of a water-soluble polymer, particularly a polysaccharide, with an oil medium so as to form an emulsion of droplets of the water-soluble polymer, and adding to the emulsion a crosslinking agent so as to form crosslinked water-soluble polymer particles. Their use includes administration by injection to a patient in need of treatment an aqueous suspension of the water-soluble polymer particles. Thus, an aqueous solution of Na alginate containing

XAMA 7 as crosslinking agent at pH 11 was agitated with toluene in the presence of Span 60 to form a water-in-oil emulsion. When the desired droplet size distribution was obtained, the pH was adjusted to 7-8 with

HOAc to initiate crosslinking, producing a dispersion of polymer microspheres with diameter <150  $\mu\text{m}$ .

=> d his

(FILE 'HOME' ENTERED AT 10:11:36 ON 14 JUN 2008)

FILE 'CAPLUS' ENTERED AT 10:11:57 ON 14 JUN 2008

L1 0 S US 2005/0222081.PN  
L2 1 S US 2005/0222081/PN  
L3 1 S US2005 0222081/PN  
L4 1 S US 20050222081/PN  
L5 ANALYZE L4 1 RN : 6 TERMS

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L6 6 S L5  
L7 4 S L6 AND ?AZIRI?

FILE 'CAPLUS' ENTERED AT 10:13:52 ON 14 JUN 2008

L8 34 S L7  
L9 1 S L8 AND (HYALUR? OR ?SACCHAR?) AND (?CROSS?)  
L10 3 S L8 AND (HYALUR? OR ?SACCHAR?)  
L11 1 S L10 AND PY<=2002

FILE 'REGISTRY' ENTERED AT 10:15:45 ON 14 JUN 2008

L12 1 S 23974-29-0/RN  
SET NOTICE 1 DISPLAY  
SET NOTICE LOGIN DISPLAY

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FILE 'CAPLUS' ENTERED AT 10:19:46 ON 14 JUN 2008

L13 30 S L8 AND PY<=2002  
L14 0 S L13 AND HYALURON?  
L15 37 S HYALURON? AND ?AZIRI?  
L16 25 S L15 AND PY<=2002  
L17 2 S L16 AND (VISCO? OR ?ARTHR? OR JOINT)

FILE 'CAPLUS' ENTERED AT 11:05:58 ON 14 JUN 2008

FILE 'REGISTRY' ENTERED AT 11:06:02 ON 14 JUN 2008

L18 1 S 57116-45-7/RN

FILE 'CAPLUS' ENTERED AT 11:06:55 ON 14 JUN 2008

L19 2 S L18 AND ?HYALURON?  
L20 2 S L19 AND PY<=2002

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.60	-1.60

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